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	Application No.	Applicant(s)
Nation of Allowskiller	10/047,135	GROSS ET AL.
Notice of Allowability	Examiner	Art Unit //
	Brian Szmal	3736
The MAILING DATE of this communication appearance of the second serious allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this apply or other appropriate communication IGHTS. This application is subject to 3 and MPEP 1308.	plication. If not included will be mailed in due course. THIS
1. A This communication is responsive to the phone interview of	on July 7, 2004.	
2. X The allowed claim(s) is/are 1,2,13,14,26-30,58-61,64,95,9	<u>6 and 112-121</u> .	
3. $igotimes$ The drawings filed on <u>15 January 2004</u> are accepted by th	e Examiner.	
 4. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 		
2. ☑ Certified copies of the priority documents have		9/413,272 .
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		•
* Certified copies not received:		·
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a reply IENT of this application.	complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
6. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.	
(a) I including changes required by the Notice of Draftspers	son's Patent Drawing Review (PTO-	948) attached
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the C	Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	.84(c)) should be written on the drawing the header according to 37 CFR 1.121(ngs in the front (not the back) of d).
7. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MATERIAL r FOR THE DEPOSIT OF BIOLOGIC	nust be submitted. Note the AL MATERIAL.
Attachment(s)		
1. Notice of References Cited (PTO-892)	5. Notice of Informal P	atent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary	
3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 4/2/04 and 5/12/04	Paper No./Mail Dai 08), 7. ⊠ Examiner's Amendr	
4. ☐ Examiner's Comment Regarding Requirement for Deposit	8. Examiner's Statement	ent of Reasons for Allowance
of Biological Material	9. Other	

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Steven Henry on July 7, 2004.

The application has been amended as follows:

1. (amended) A device for treatment of urinary stress incontinence, comprising:

at least one electrode which is <u>adapted to be</u> implanted in a pelvic muscle of a patient; and

a control unit, which receives signals indicative of abdominal stress pressure or strain in the patient and further comprises a processor which analyzes the signals and determines when an involuntary urine flow is likely, and responsive thereto when the analyzed signals exceed a predetermined threshold indicative of abdominal pressure or strain, applies an electrical waveform to the electrode which stimulates the muscle to contract, so as to inhibit involuntary urine flow through the patient's urethra due to stress.

4. (cancelled)

26. (amended) A device according to claim 1, wherein the at least one electrode and the control unit are <u>adapted to be</u> implanted in the body of the patient, and wherein the control unit comprises a rechargeable power source.

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58. (amended) A method for treatment of urinary stress incontinence of a patient, comprising:

implanting an electrode in a pelvic muscle of the patient;

receiving a signal from the patient's body indicative of abdominal stress pressure or strain;

analyzing the received signal using a processor; and

responsive to the <u>analyzed</u> signal, applying an electrical waveform to the electrode, which stimulates the muscle to contract so as to inhibit involuntary urine flow.

95. (amended) A device for inhibiting involuntary urine flow, comprising:

at least one electrode, which is adapted to be implanted in a pelvic muscle of a patient;

a sensor, which is adapted to senses a change in pressure of an abdomen or a urinary bladder of the patient and to generates a signal responsive thereto; and

a control unit, which is adapted to receives the signal, analyzes the signal to determine a level of abdominal stress of the patient, and, responsive thereto, apply applies an electrical waveform to the electrode which stimulates the muscle to contract so as to and inhibit involuntary urine flow through the patient's urethra due to stress,

wherein the control unit comprises a processor which is adapted to analyzes the signals so as to and determines when an involuntary urine flow is likely, whereupon the waveform is applied, and

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wherein the processor is programmable to vary one or more parameters associated with the application of the waveform.

2. The following is an examiner's statement of reasons for allowance: After reviewing the proposed amendment to the claims, the claims were found to be allowable since no prior art could be found teaching or suggesting a device or method of treating or inhibiting involuntary urine flow, comprising: a control unit that receives signals indicative of abdominal pressure or strain in the patient and further comprises a processor which analyzes the signals and determines when an involuntary urine flow is likely and when the analyzed signals exceed a predetermined threshold indicative of abdominal pressure or strain, applies an electrical waveform to the electrode which stimulates the muscle to contract to inhibit involuntary urine flow, as claimed in Claim 1; responsive to a signal indicating abdominal pressure or strain, analyzing the received signal using a processor and then applying an electrical waveform to the electrode to stimulate the muscle to contract to inhibit involuntary urine flow, as claimed in Claim 58; and responsive to a signal indicating the level of abdominal or urinary bladder pressure, the control unit applies an electrical waveform to the electrode which stimulates the muscle to contract to inhibit involuntary urine flow, as claimed in Claim 95. Claims 112-121 remain allowable per the reasons set forth in the paper mailed on July 10, 2003.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably Art Unit: 3736

accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The cited prior art of Barreras (5,807,397) discloses an implanted stimulator with an inductively rechargeable power source, but fails to disclose the measurement of abdominal pressure or strain and using the measured signal to activate the stimulator to stimulate the muscle to contract to inhibit involuntary urine flow.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian Szmal whose telephone number is (703) 308-3737. The examiner can normally be reached on Monday-Friday, with second Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mary Beth Jones can be reached on (703) 308-3400. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

BS

MARY BETH JONES
ACTING SUPERVISORY PATENT EXAMINER